

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Currently Amended)** A real-time control system comprising a driver unit for receiving an input signal and outputting an interruption signal corresponding to each task process, a polling unit for polling on the basis of said interruption signal, and a task processor for performing a task process on the basis of said interruption signal, wherein:

said polling unit outputs a task processing signal on the basis of said polling when ~~said~~ a task is finished and said task processor performs said task process on the basis of said task processing signal[[]].

wherein said task processor is composed of event processing means for executing an event process and task deciding means for deciding continuity of said event process and said event processing means, when said decision result is continuation, continuously executes said current event process.

2. **(Canceled)**

3. **(Currently Amended)** TheA real-time control system according to Claim 1, wherein said event processing means performs said event process of starting a cycle.

4. **(Currently Amended)** TheA real-time control system according to

Claim 1, wherein said polling unit polls a timer and outputs said task processing signal corresponding to a start time of said task process.

5. (Currently Amended) TheA real-time control system according to Claim [[2]]1, wherein said task deciding means, on the basis of a continuation count of a current~~said~~ task process or existence of an interruption signal during said current task process, decides continuity of said task process.

6. (Currently Amended) TheA real-time control system according to Claim [[2]]1, further comprising a scheduler for communicating with said driver unit, said task processor, and said polling unit, starting in correspondence to reception of said interruption signal, and storing said decision result.

7. (Currently Amended) TheA real-time control system ~~according to Claim 6~~, comprising a driver unit for receiving an input signal and outputting an interruption signal corresponding to each task process, a polling unit for polling on the basis of said interruption signal, and a task processor for performing a task process on the basis of said interruption signal, wherein:

said polling unit outputs a task processing signal on the basis of said polling when a task is finished and said task processor performs said task process on the basis of said task processing signal.

wherein said task processor is composed of event processing means for executing an event process and task deciding means for deciding continuity of said event process and said event processing means, when said decision result is continuation, continuously executes said current event process.

further comprising a scheduler for communicating with said driver unit, said task processor, and said polling unit, starting in correspondence to reception of said interruption signal, and storing said decision result,

wherein said scheduler has a cyclic table for recording a cycle corresponding to said event processing means and said task deciding means, when said event process is completed, on the basis of a signal of said cyclic table, decides said continuity of said event process.

8. (Currently Amended) TheA real-time control system according to Claim [[6]]7, wherein said scheduler, until it stores said decision result of end when said task deciding means is in operation, inhibits said interruption signal to interrupt said task.

9. (Currently Amended) TheA real-time control system according to Claim 1, wherein said polling unit polls said interruption signal generated during said event process and outputs said task processing signal for executing said event process corresponding to said interruption signal, and

said task deciding means, on the basis of existence of said task processing signal, decides said continuity of said event process.

10. (Canceled)

11. (Currently Amended) TheA real-time control system according to Claim [[2]]1, wherein when said plurality of task processing signals are detected at the same time, said task deciding means assigns priority to each of said task processing signals and then reads them.

12. (Currently Amended) TheA real-time control system according to Claim ~~[[2]]~~1, wherein when said plurality of task processing signals are detected at the same time, said task deciding means, at said detection time, reads in priority signals different from said task processing signals corresponding to said event process performed by said event processing means.

13. (Currently Amended) TheA real-time control system according to Claim ~~[[10]]~~9, wherein when said plurality of task processing signals are detected at the same time, said task deciding means assigns priority to each of said task processing signals and then reads them.

14. (Currently Amended) TheA real-time control system according to Claim ~~[[10]]~~9, wherein when said plurality of task processing signals are detected at the same time, said task deciding means, at said detection time, reads in priority signals different from said task processing signals corresponding to said event process performed by said event processing means.

Amendments to the Drawings:

The attached sheets of drawings includes changes to Fig. 8 and Fig. 13 to include the legend "Prior Art".

Attachment: Replacement Sheet

Annotated Sheet Showing Changes